



PCT

#9

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/857,896A

DATE: 04/22/2002 *P.6*
TIME: 15:00:35

Input Set : A:\BB1313 PCTseqlist.txt
Output Set : N:\CRF3\04222002\I857896A.raw

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3 <110> APPLICANT: E. I. du Pont de Nemours and Company
5 <120> TITLE OF INVENTION: PLANT DISEASE RESISTANCE GENES
7 <130> FILE REFERENCE: BB1313
9 <140> CURRENT APPLICATION NUMBER: 09/857,896A
C--> 10 <141> CURRENT FILING DATE: 2002-03-04
12 <150> PRIOR APPLICATION NUMBER: 60/112,737
13 <151> PRIOR FILING DATE: 1998-12-18
15 <160> NUMBER OF SEQ ID NOS: 42
17 <170> SOFTWARE: Microsoft Office 97
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 1600
21 <212> TYPE: DNA
22 <213> ORGANISM: Oryza sativa
24 <400> SEQUENCE: 1
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26 cattccccca gaaaaagtgc aagcaetttc ttgatgtaat ttectacaga ttgcagattg 120
27 gaagttgtct ctgactgtgc cattatgtct ttcaatgttc atggatggca taacttgttc 180
28 tggttctcta caatccccct tgtagtaact tttagcagttg gaacaaagct gcaggctata 240
29 attgcaatga tggctgttga aattaaagag aggcatacac taattcaagg aatgccggtg 300
30 gtgaaactca gtgatgaaca ttttttggtc ggggaagccac gtctggttct tcatcttate 360
31 catttgcggt catttcaggt aacttgaaca taaagcttgc ggaanaagctt ttgcgtaaaa 420
32 tgcacaacct tgactcactt acatccacca aatgatgaat gtcatgcacc atagacatct 480
33 ggatagcagt gtcaaatgtga attttcacta tcatgattgc taaggaaata agtatcaagt 540
34 gtttagagaa tactttgttg ccacgggaata cttaatctct agtcttttagc atgcacttac 600
35 ttttgaatct gaagccacaa ggctgcgaaa ataggagttg atttttctt catctaatag 660
36 ctcttcattg ttcttcgaga atgcatttga aattacatac ttcttttggg tttgggtaaa 720
37 gattgtctcc atttccaaat ttgaaaaact gttttacggc acagctataa tttctctgat 780
38 gatgctgaac ttttgtgcag tacgaattcg gtttgagatc ctgcttccat gacaaactttg 840
39 agcttatcat cgccagagtc tgccctgggg ttgtcgttca attcatgtgc agctataaca 900
40 cacttccact ctatgctctc gtatctcaga tgggttcaca gatgaagaga acgattttcg 960
41 acgagcagac ggcgaaaggcc ctgaagaatat ggcacaaaggc agcagttggtg aagaagaagc 1020
42 agcagaaggg gtcatcccat gagccaggtt cagagacacc gggcacggag acgacgacga 1080
43 cgacggcgac ggcaacggag gagagccagc gagaacgcga cgccgcggcc atgccggtgc 1140
44 gccactctca cgctaccaag accatcgccc acgtcgcgcc agctcgcgact ctgtccgact 1200
45 cggaactgtc cgaacaggac acgcccgttc cgtcgccgac gaggtctcgt ataccgcgca 1260
46 caaagcagcg gagcctcgac gccgggaggg cggaggtgcy cgtggacgtc gactcgacgc 1320
47 cgacgcccag accaccggag cgccatgaca gcttctctt cccgaggttg cctgctcaca 1380
48 attgcaagca gaatatgaca aatgatcatc catctaatg ctctaaccat cagtactagt 1440
49 agtagacgca tcaactatac atgtaattga aattgatggt ggtgacaagt gtgtgtagag 1500
50 cagtggagtc tgaacttgg ttgctgtcca tttggtccag ctctcatctc gtgggtggag 1560
51 cgagctgag aaaaatgccat ttcaagttaa aaaaaaaaaa 1600
53 <210> SEQ ID NO: 2
54 <211> LENGTH: 290

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55 <212> TYPE: PRT
56 <213> ORGANISM: Oryza sativa
58 <400> SEQUENCE: 2
59 Ala Ile Met Leu Phe Asn Val His Gly Trp His Asn Leu Phe Trp Phe
60 1 5 10 15
62 Ser Thr Ile Pro Leu Val Val Thr Leu Ala Val Gly Thr Lys Leu Gln
63 20 25 30
65 Ala Ile Ile Ala Met Met Ala Val Glu Ile Lys Glu Arg His Thr Val
66 35 40 45
68 Ile Gln Gly Met Pro Val Val Lys Leu Ser Asp Glu His Phe Trp Phe
69 50 55 60
71 Gly Lys Pro Arg Leu Val Leu His Leu Ile His Phe Ala Ser Phe Gln
72 65 70 75 80
74 Asn Ala Phe Glu Ile Thr Tyr Phe Phe Trp Ile Trp Tyr Glu Phe Gly
75 85 90 95
77 Leu Arg Ser Cys Phe His Asp Asn Phe Glu Leu Ile Ile Ala Arg Val
78 100 105 110
80 Cys Leu Gly Val Val Val Gln Phe Met Cys Ser Tyr Ile Thr Leu Pro
81 115 120 125
83 Leu Tyr Ala Leu Val Ser Gln Met Gly Ser Gln Met Lys Arg Thr Ile
84 130 135 140
86 Phe Asp Glu Gln Thr Ala Lys Ala Leu Lys Lys Trp His Lys Ala Ala
87 145 150 155 160
89 Val Val Lys Lys Lys Gln Gln Lys Gly Ser Ser His Glu Pro Gly Ser
90 165 170 175
92 Glu Thr Pro Gly Thr Glu Thr Thr Thr Thr Thr Ala Thr Ala Thr Glu
93 180 185 190
95 Glu Ser Gln Arg Glu Arg Asp Ala Ala Ala Met Pro Val Arg His Leu
96 195 200 205
98 His Arg Tyr Lys Thr Ile Ala His Val Gly Ala Thr Gly Thr Leu Ser
99 210 215 220
101 Asp Ser Asp Cys Ser Asp Thr Asp Thr Pro Phe Ala Ser Pro Thr Arg
102 225 230 235 240
104 Leu Leu Ile Pro Pro Thr Lys Gln Arg Ser Leu Asp Ala Gly Arg Ala
105 245 250 255
107 Glu Val Arg Val Asp Val Asp Ser Thr Pro Thr Pro Thr Pro Glu
108 260 265 270
110 Arg His Asp Ser Phe Ser Phe Pro Arg Leu Pro Ala His Asn Leu Gln
111 275 280 285
113 Gln Lys
114 290
116 <210> SEQ ID NO: 3
117 <211> LENGTH: 501
118 <212> TYPE: DNA
119 <213> ORGANISM: Oryza sativa
121 <220> FEATURE:
122 <221> NAME/KEY: unsure
123 <222> LOCATION: (335)
124 <223> OTHER INFORMATION: n = A, C, G, or T

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126 <220> FEATURE:
127 <221> NAME/KEY: unsure
128 <222> LOCATION: (415)
129 <223> OTHER INFORMATION: n = A, C, G, or T
131 <220> FEATURE:
132 <221> NAME/KEY: unsure
133 <222> LOCATION: (445)
134 <223> OTHER INFORMATION: n = A, C, G, or T
136 <220> FEATURE:
137 <221> NAME/KEY: unsure
138 <222> LOCATION: (479)
139 <223> OTHER INFORMATION: n = A, C, G, or T
141 <220> FEATURE:
142 <221> NAME/KEY: unsure
143 <222> LOCATION: (482)
144 <223> OTHER INFORMATION: n = A, C, G, or T
146 <220> FEATURE:
147 <221> NAME/KEY: unsure
148 <222> LOCATION: (493)
149 <223> OTHER INFORMATION: n = A, C, G, or T
151 <400> SEQUENCE: 3
152 aaaattttctc tcccgcgact ctctacgcgg cggcgtgcac gttctctctc acctccgtgc 60
153 actattttact tcccagtttg agtttgacat tctcgcggga agaagggagaa gaagttgggtg 120
154 agcctgtgag aggctgattg cgcggcgccc atggcggag ggggaggagaa ggcggcgggcg 180
155 ggcggcgggc aagcgcgggc gataacgctg gagcacacac cgactgggat cgtctccgcc 240
156 gtctgcttgc tcactgctcat catctcgctg ctcttcgagc gctgtctcca cgcctctggcg 300
W--> 157 aagagggttga agaagaccgc aagaaccgct ctacnaggga cctcaagtc aaagaagact 360
W--> 158 gatgctgctg gggtcactct gctgctgctg aagtttccag ggctgacgca gaagnagctg 420
W--> 159 aagcacctca tggacactgc agcgncaact cgactcagg ccacaagacgc aagacacgnc 480
W--> 160 anggcgcgcc gngtgagagt c 501
162 <210> SEQ ID NO: 4
163 <211> LENGTH: 81
164 <212> TYPE: PRT
165 <213> ORGANISM: Oryza sativa
167 <220> FEATURE:
168 <221> NAME/KEY: UNSURE
169 <222> LOCATION: (62)
170 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID
172 <400> SEQUENCE: 4
173 Met Ala Gly Gly Gly Gly Lys Ala Ala Ala Gly Gly Gly Glu Ala Pro
174 1 5 10 15
176 Ala Ile Thr Leu Glu His Thr Pro Thr Trp Ile Val Ser Ala Val Cys
177 20 25 30
179 Phe Val Ile Val Ile Ile Ser Leu Leu Phe Glu Arg Leu Leu His Arg
180 35 40 45
W--> 182 Leu Gly Lys Arg Leu Lys Lys Thr Ala Arg Thr Ala Leu Xaa Gly Thr
183 50 55 60
185 Leu Lys Ser Lys Lys Thr Asp Ala Ala Gly Val Ile Ser Leu Leu Leu
186 65 70 75 80

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 PATENT APPLICATION: US/09/857,896A TIME: 15:00:35

Input Set : A:\BB1313 PCTseqlist.txt
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188 Lys
191 <210> SEQ ID NO: 5
192 <211> LENGTH: 513
193 <212> TYPE: DNA
194 <213> ORGANISM: Oryza sativa
196 <220> FEATURE:
197 <221> NAME/KEY: unsure
198 <222> LOCATION: (425)
199 <223> OTHER INFORMATION: n = A, C, G, or T
201 <220> FEATURE:
202 <221> NAME/KEY: unsure
203 <222> LOCATION: (492)
204 <223> OTHER INFORMATION: n = A, C, G, or T
206 <220> FEATURE:
207 <221> NAME/KEY: unsure
208 <222> LOCATION: (507)
209 <223> OTHER INFORMATION: n = A, C, G, or T
211 <400> SEQUENCE: 5
212 acagatgggga tcaaacatga agaagaccat cttcgaggag cagacgatga aggccctgat 60
213 gaactggagg aagacggcga gggagaagaa gaagctccgg gacgccgacg agttcctagc 120
214 acagatggagc ggcgacacga cgcgagcccg cggtctctcg ccggtgcacc tgcgtcacaa 180
215 gcaaaaggggtg aggtcggaag atccgccgag cgcacgggca tcgccggggt tcgccggaga 240
216 ggcaggggac atgtaccggg tgcccggtgc gccgggtggt cgcccgcatg ggtttaaccg 300
217 gatggaccgg gataagagga gggcggcgtc ctgcgcggcc atccaaagttg acatcgccga 360
218 ttctgatttc tccttcagtg tacaacggtg atggccgaaa gttttctctg tacttaaaag 420
W--> 219 tgtanagcagc caaatatagg aagtacaatg tatagttggt acactacata tagaggattt 480
W--> 220 agaaaagttc antcgatttt tttaaagnaac aat 513
222 <210> SEQ ID NO: 6
223 <211> LENGTH: 129
224 <212> TYPE: PRS
225 <213> ORGANISM: Oryza sativa
227 <400> SEQUENCE: 6
228 Gln Met Gly Ser Asn Met Lys Lys Thr Ile Phe Glu Glu Gln Thr Met
229 1 5 10 15
231 Lys Ala Leu Met Asn Trp Arg Lys Thr Ala Arg Glu Lys Lys Lys Leu
232 20 25 30
234 Arg Asp Ala Asp Glu Phe Leu Ala Gln Met Ser Gly Asp Thr Thr Pro
235 35 40 45
237 Ser Arg Gly Ser Ser Pro Val His Leu Leu His Lys Gln Arg Val Arg
238 50 55 60
240 Ser Glu Asp Pro Pro Ser Ala Pro Ala Ser Pro Gly Phe Ala Gly Glu
241 65 70 75 80
243 Ala Arg Asp Met Tyr Pro Val Pro Val Ala Pro Val Val Arg Pro His
244 85 90 95
246 Gly Phe Asn Arg Met Asp Pro Asp Lys Arg Arg Ala Ala Ser Ser Ser
247 100 105 110
249 Ala Ile Gln Val Asp Ile Ala Asp Ser Asp Phe Ser Phe Ser Val Gln
250 115 120 125
252 Arg

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RAW SEQUENCE LISTING

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TIME: 15:00:35

Input Set : A:\BBI313 PCTseqlist.txt

Output Set: N:\CRF3\04222002\I857896A.raw

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255 <210> SEQ ID NO: 7
256 <211> LENGTH: 1745
257 <212> TYPE: DNA
258 <213> ORGANISM: Glycine max
260 <400> SEQUENCE: 7
261 gcaacgaggag agagattgga gagagaatga gtggcggagg agaagagggga gcaactctgg 60
262 agttcactcc gacgtggggt gtggcgcgct ttggcacagt catcgtcgcc atttccctcg 120
263 ccgctgagcg cctccttcat tatggcggaa agtttctcaa agccaaggac cagaagccgc 180
264 tctacgaagc tctccagaag atcaaaagaag agctgatgct ttgggggttc atttccctgc 240
265 ttttgacggt tacacaaaac ggcattacca aaatctgcgt tcgacctctc ttgacctccc 300
266 acatgctccc gtgtaatccc cagcagcctc cagcaaacca cgaatctcat ttcacagacat 360
267 ttttccctgg aacagccagg cgccttctct ctgggggaaca ctccaccccc gagtcgcgct 420
268 ctaaaattgg ttattgctct cgaagcaca agtgcccttt attatctgtg gaagcacttc 480
269 accaccttca catcttcatt tttgtctcgc ctgtctgaca cgtctccttt tccgtgctca 540
270 ccggtgtctt tggaggcgcc agaatacgtc agtggaaca ctgggaagat tctattgcaa 600
271 aacagaacta cgagactgac cgagttctca aaccaagggt cactcaggtt caccagcatg 660
272 attttatcag ggttcggttt gctgggtttg gcaaaagactc tgctatagtc ggttggttgc 720
273 tatctcttct aaagcaattt tatggatctg tgacaaaatc agattattgt acattgcgac 780
274 atggtttcat tatgaccac tcgaggacaa atccgaagtt taattttcac aagtacatga 840
275 ttcgtgccct cgaagatgat ttcaagcaag ttgttggtat aagttgggat ctttgctgt 900
276 ttgtgtttat cttctgttta cttaatatca atggttgcca tacgtatttc tggattgctt 960
277 ttattctgtc cattctttta ctctgtgtgg gcactaagct ggagocacata ataaccocaa 1020
278 tagctcatga agtacctgag aagcatgctg ccatagaagg tgatttagtt gtgcagccat 1080
279 cagatgaaca tttttgtttt catcgccccc atgtgttctc ctttttgatt cactttatcc 1140
280 ttttccaaaa tgccttttag atagcatttt ttttctggat atgggtcaca tatggatttg 1200
281 actcctgtat aatgggacaa gttctgatac ttgttccaa gcttgattat ggggtattta 1260
282 ttcagggtact atgtagctac agcaccctgc cactgtatgc aattgttacg cagatgggaa 1320
283 ctcaactataa gcgggcaata tttaatgata atttgcaaca aaacattgtt ggttgggac 1380
284 agaagcgcaa gaagaggaaa ggactaaaag ctgatggcaa tccctggccaa ggaagtcttc 1440
285 aggaaggtgc taatacagaa atccagcttg ggtcaatttt caagaaggca actgctccag 1500
286 gagacagttc ttctgccccc aaagctgacg gaatcagctc agttagctca ttaagttaa 1560
287 gatttacagt cttattttgt aaagttgctc acagattgca gtttcttcta tattattttc 1620
288 ttgtctaaac taatgtagca ttgtgggaca ttgtttgac ttggtgtacg cataaggtcg 1680
289 aagtaactata tgagttagat ctagttaatg tctatgcatt tctaaaaaaa aaaaaaaaaa 1745
290 aaaaaa
292 <210> SEQ ID NO: 8
293 <211> LENGTH: 506
294 <212> TYPE: PRP
295 <213> ORGANISM: Glycine max
297 <400> SEQUENCE: 8
298 Met Ser Gly Gly Gly Glu Glu Gly Ala Thr Leu Glu Phe Thr Pro Thr
299 1 5 10 15
301 Trp Val Val Ala Ala Phe Cys Thr Val Ile Val Ala Ile Ser Leu Ala
302 20 25 30
304 Ala Glu Arg Leu Leu His Tyr Gly Gly Lys Phe Leu Lys Ala Lys Asp
305 35 40 45
307 Gln Lys Pro Leu Tyr Glu Ala Leu Gln Lys Ile Lys Glu Glu Leu Met
308 50 55 60
310 Leu Leu Gly Phe Ile Ser Leu Leu Thr Val Thr Gln Asn Gly Ile

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/22/2002
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Input Set : A:\BB1313 PCTseqlist.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 335,415,445,479,482,493
Seq#:4; Xaa Pos. 62
Seq#:5; N Pos. 425,492,507
Seq#:9; N Pos. 454,504,531,559
Seq#:10; Xaa Pos. 151,168,177,186
Seq#:11; N Pos. 1370
Seq#:12; Xaa Pos. 406
Seq#:19; N Pos. 292,366,372,383,410,418,428,441,454,468,474
Seq#:20; Xaa Pos. 122,124,128
Seq#:21; N Pos. 516,526,545
Seq#:23; N Pos. 459,600,606,607,658,661,672,675,679,683,696,707,721
Seq#:24; Xaa Pos. 153
Seq#:25; N Pos. 17,353,437,455,536,555,557
Seq#:26; Xaa Pos. 6
Seq#:29; N Pos. 223,248,249,254,311,330,341,350,361,389,405,446
Seq#:30; Xaa Pos. 74
Seq#:33; N Pos. 81,177,280,336,339,345,350,371,380,399,405,412,432,452,462
Seq#:33; N Pos. 466,476,482
Seq#:34; Xaa Pos. 30,48,49,51,53,60,63
Seq#:35; N Pos. 19,328,382,394,453
Seq#:36; Xaa Pos. 7,110

VERIFICATION SUMMARY

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Output Set: N:\CRF3\04222002\I857896A.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:300
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:360
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:420
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:480
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:420
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:480
L:427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:420
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:480
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:540
L:484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:144
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:160
L:490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:176
L:526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:1320
L:624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:400
L:948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:240
L:950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:360
L:951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:420
L:995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:112
L:1030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:480
L:1031 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:540
L:1142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:420
L:1144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:540
L:1145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:600
L:1146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:660
L:1147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:720
L:1187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:144
L:1231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:1236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:300
L:1238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:420
L:1239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:480
L:1240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:540
L:1253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:1421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:180
L:1422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:240
L:1423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:300
L:1424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:360
L:1425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:420
L:1450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:64
L:1694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:60
L:1695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:120
L:1697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:240
L:1698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:300
L:1699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:360
L:1700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:420
L:1701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:480
L:1742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:16

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L:1745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:32

L:1748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:48

L:1785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0